Cellular Immunology

AN INTERNATIONAL JOURNAL

EDITOR-IN-CHIEF: H. Sherwood Lawrence

Volume 154, 1994

ACADEMIC PRESS, INC.
Harcourt Brace & Company
San Diego New York Boston
London Sydney Tokyo Toronto

Copyright © 1994 by Academic Press, Inc.
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (222 Rosewood Drive, Danvers, Massachusetts 01923), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1994 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0008-8749/94 $6.00

MADE IN THE UNITED STATES OF AMERICA

This journal is printed on acid-free paper.

Contents of Volume 154

NUMBER 1, MARCH 1994

FLORENCE A. HARROD, GLENN P. HOOT, AND JOHN R. KETTMAN. Transplantable Polyomavirus-Induced Salivary Gland Epitheliomas Are Populated by Immature T Cells Derived from the Host 1

GRANT RISDON, JAY GADDY, FREDERICK B. STEHMAN, AND HAL E. BROXMEYER. Proliferative and Cytotoxic Responses of Human Cord Blood T Lymphocytes Following Allogeneic Stimulation 14

M. ADIBZADEH, H. J. BÜHRING, T. DAIKELER, P. SIEGELS-HÜBENTHAL, M. OWSIANOWSKY, A. SCHENK, A. REHBEIN, K. SCHAUDT, E. SCHLOTZ, H. POHLA, AND G. PAWELEC. Extrathymic Development and Function of Human T-Lymphocytes from Bone Marrow Cells *in Vitro* ... 25

RICHARD L. MOORE AND BARBARA S. FOX. $CD4^+$ Class I-Restricted T Cells Specific for HIV gp160 315-329 43

JOHN J. BRIGHT, SHRIKANTH P. HEGDE, ZAREENA BEGUM, AND ASHOK KHAR. Modulation of Natural Killer Cell Function Leading to Spontaneous Regression of a Histiocytoma 54

DOUGLAS A. JABS, RUDOLPH C. KUPPERS, ALI M. SABOORI, C. LYNNE BUREK, CHERYL ENGER, BELLA LEE, AND ROBERT A. PRENDERGAST. Effects of Early and Late Treatment with Anti-CD4 Monoclonal Antibody on Autoimmune Disease in MRL/MP-*lpr*/*lpr* Mice 66

CHRISTIANE CONTIGLI, BARBARA L. DOUGHTY, J. CATHERINE CONE, AND ALFREDO M. GOES. Recognition of Different *Schistosoma mansoni* Antigens by Specific Human T Cell Clones 77

NICHOLAS W. LUKACS, ROBERT M. STRIETER, HOLLY L. EVANOFF, MARIE D. BURDICK, AND STEVEN L. KUNKEL. VCAM-1 Influences Lymphocyte Proliferation and Cytokine Production during Mixed Lymphocyte Responses 88

DAVID I. KUSHER, LAURA O. DAWSON, ANN C. TAYLOR, AND JULIE Y. DJEU. Effect of the Psychoactive Metabolite of Marijuana, Δ^9-Tetrahydrocannabinol (THC), on the Synthesis of Tumor Necrosis Factor by Human Large Granular Lymphocytes 99

PAULA VAN DEN BERGH, RUUD DOBBER, SHARMIELA RAMLAL, JAN ROZING, AND LEX NAGELKERKEN. Role of Opioid Peptides in the Regulation of Cytokine Production by Murine $CD4^+$ T Cells 109

LYDA M. OSORIO, CARLOS A. GARCIA, MIKAEL JONDAL, AND SEK C. CHOW. The Anti-CD6 mAb, IOR-T1, Defined a New Epitope on the Human CD6 Molecule That Induces Greater Responsiveness in T Cell Receptor/CD3-Mediated T Cell Proliferation 123

BULBUL CHAKRAVARTI, DEB N. CHAKRAVARTI, AND HANS J. MÜLLER-EBERHARD. Role of *de Novo* Protein Synthesis by Human Mononuclear Leukocytes in Opsonin-Independent Phagocytosis 134

DAVID A. CLARK, GERARD CHAOUAT, RONA MOGIL, AND THOMAS G. WEGMANN. Prevention of Spontaneous Abortion in DBA/2-Mated CBA/J Mice by GM-CSF Involves $CD8^+$ T Cell-Dependent Suppression of Natural Effector Cell Cytotoxicity against Trophoblast Target Cells 143

GARY J. RUSSELL, CHRISTINA M. PARKER, KARYN L. CEPEK, MICHAEL B. BRENNER, AND ATUL K. BHAN. Evidence for a Structural Difference in the CD7 Polypeptide on Human Thymocytes and Intraepithelial Lymphocytes Defined by a New Monoclonal Antibody, 3D9 153

HELEN G. HAGGERTY AND JOHN G. MONROE. A Mutant of the WEHI-231 B Lymphocyte Line That Is Resistant to Phorbol Esters Is Still Sensitive to Antigen Receptor-Mediated Growth Inhibition 166

TATSUHIRO HISATSUNE, KEN-ICHI NISHIJIMA, YUJI MINAI, MASAKO KOHYAMA, AND SHUICHI KAMINOGAWA. Autoreactive $CD8^+$ T Cell Clones Producing Immune Suppressive Lymphokines IL-10 and Interferon-γ 181

KEN-ICHI NISHIJIMA, TATSUHIRO HISATSUNE, YUJI MINAI, MASAKO KOHYAMA, AND SHUICHI KAMINOGAWA. Anti-IL-10 Antibody Enhances the Proliferation of $CD8^+$ T Cell Clones: Autoregulatory Role of Murine IL-10 in $CD8^+$ T Cells 193

YA-JUN GUO, JIN-HONG WONG, SHIH-CHANG LIN, ALEJANDRO ARUFFO, IVAN STAMENKOVIC, AND MAN-SUN SY. Disruption of T Lymphocyte Reappearance in Anti-Thy-1-Treated Animals *in Vivo* with Soluble CD44 and L-Selectin Molecules 202

GUY GAMMON, DENISE EDGER, WILLIAM H. MCBRIDE, AND ELI E. SERCARZ. Complications in the Functional Analysis of Transfected MHC Genes 219

27 752HI XL 1822
10/94 31249-150

SHORT COMMUNICATIONS

KAZUHIDE SHIMADA, CHANG-SUNG KOH, KEI-ICHI UEMURA, AND NOBUO YANAGISAWA. Suppression of Experimental Allergic Encephalomyelitis in Lewis Rats by Administration of Gangliosides ... 231

TOM J. GOLDSCHMIDT AND RIKARD HOLMDAHL. Therapeutic Effects of Monoclonal Antibodies to $\alpha\beta$TCR but Not to CD4 on Collagen-Induced Arthritis in the Rat ... 240

ANNOUNCEMENT ... 249

PAPERS TO APPEAR IN FORTHCOMING ISSUES ... 250

NUMBER 2, APRIL 1, 1994

ALAN W. FRIEDMAN, LUIS A. DIAZ, JR., SUSAN MOORE, JILL SCHALLER, AND DAVID A. FOX. The Human 4F2 Antigen: Evidence for Cryptic and Noncryptic Epitopes and for a Role of 4F2 in Human T Lymphocyte Activation ... 253

MONTE V. HOBBS, WILLIAM O. WEIGLE, AND DAVID N. ERNST. Interleukin-10 Production by Splenic $CD4^+$ Cells and Cell Subsets from Young and Old Mice ... 264

ANAHID JEWETT AND BENJAMIN BONAVIDA. Activation of the Human Immature Natural Killer Cell Subset by IL-12 and Its Regulation by Endogenous TNF-α and IFN-γ Secretion ... 273

D. MARK ESTES, NATALIE M. CLOSSER, AND GARY K. ALLEN. IFN-γ Stimulates IgG_2 Production from Bovine B Cells Costimulated with Anti-μ and Mitogen ... 287

RACHEL L. ROPER, JOHN W. LUDLOW, AND RICHARD P. PHIPPS. Prostaglandin E_2 Inhibits B Lymphocyte Activation by a cAMP-Dependent Mechanism: PGE-Inducible Regulatory Proteins 296

KODIMANGALAM S. RAVICHANDRAN, BARBARA A. OSBORNE, AND RICHARD A. GOLDSBY. Quantitative Analysis of the B Cell Repertoire by Limiting Dilution Analysis and Fluorescent *in Situ* Hybridization ... 309

WALTER C. OLSON AND DONALD L. EWERT. A Novel Multilineage Cell-Surface Antigen Expressed on Terminally Differentiated Chicken B Cells in Mucosal Tissues ... 328

THOMAS M. WALKER, CAROL J. BURGER, AND KLAUS D. ELGERT. Tumor Growth Alters T Cell and Macrophage Production of and Responsiveness to Granulocyte–Macrophage Colony-Stimulating Factor: Partial Dysregulation through Interleukin-10 ... 342

NEIL M. MATSUI AND PAUL Q. PATEK. Transformed B Cell Lines Express Cell-Associated Tumor Necrosis Factor and Mediate Natural Cytotoxic Activity ... 358

R. K. PURI, W. DEBINSKI, N. OBIRI, R. KREITMAN, AND I. PASTAN. Human Renal Cell Carcinoma Cells Are Sensitive to the Cytotoxic Effect of a Chimeric Protein Composed of Human Interleukin-4 and *Pseudomonas* Exotoxin ... 369

GERALD T. TODD, TIMOTHY P. LUKACSKO, AND ROBERT L. FAIRCHILD. T Cell Activation Is Not a Prerequisite for Peripheral Tolerance Induction to Mls 1^a ... 380

JIA-YAN WU, BONNIE H. GARDNER, NICHOLAS N. KUSHNER, LU-ANN M. POZZI, CHARLOTTE R. KENSIL, PENNY A. CLOUTIER, RICHARD T. COUGHLIN, AND MARK J. NEWMAN. Accessory Cell Requirements for Saponin Adjuvant-Induced Class I MHC Antigen-Restricted Cytotoxic T-Lymphocytes ... 393

SIÂN H. JONES, ANDREW GEORGIOU, AND COLIN G. BROOKS. Analysis of the Functional Potential of Mouse $CD4^+$ T Cells Using a High-Efficiency Cloning System ... 407

FABRIZIO MANCA, VITALIA DESSÍ, NILABH SHASTRI, ALAN OKI, MARK KAPLAN, JESSICA CLARKE, ALEXANDER MILLER, AND ELI E. SERCARZ. Isolation of Lysozyme-Specific T Cell Clones That Discriminate between Native and Denatured Antigen ... 420

SHIGEAKI ISHIZAKA, MAKOTO KIMOTO, AND TADASU TSUJII. Parotin Subunit as a Potent Polyclonal B Cell Activator Binds to Newly Found Glycosylphosphatidylinositol (GPI)-Anchored Proteins on Human B Cell Surfaces ... 430

STEPHEN J. D. BELL, STEVEN M. VROEGOP, AND STEPHEN E. BUXSER. Early Activation and Cell Trafficking Induced by Staphylococcal Enterotoxin B: Effects of High- versus Low-Dose Challenge on Induction of Anergy ... 440

M. FISHMAN AND M. COSTLOW. TNF Induction of EL4 Hyposensitivity to Lysis by Recombinant (Soluble) and Membrane-Associated TNFs: TNF Binding, Internalization, and Degradation 453

SOPHIE LEBEL-BINAY, MARIA LUISA GIL, CÉCILE LAGAUDRIERE, BRIGITTE MILOUX, CARMEN MARCHIOL-FOURNIGAULT, ANNE QUILLET-MARY, MANUEL LOPEZ, DIDIER FRADELIZI, AND

HÉLÈNE CONJEAUD. Further Characterization of CD82/IA4 Antigen (Type III Surface Protein): An Activation/Differentiation Marker of Mononuclear Cells 468
MARK D. MANNIE, HAZEL TRUMAN, AND JANICE MORRISON-PLUMMER. T-Helper Lymphocytes Specific for Myelin Basic Protein: Activation-Induced Refractoriness of IL-2 Production Pathways Augments an Anti-CD4-Mediated Proliferative Deficit 484
MANUELA SANTOS AND MARIA DE SOUSA. *In Vitro* Modulation of T-Cell Surface Molecules by Iron 498

PAPERS TO APPEAR IN FORTHCOMING ISSUES 507

AUTHOR INDEX FOR VOLUME 154 510

NOTICE

The Subject Index for Volume 154 will appear in the December 1994 issue as part of a cumulative index for the year 1994.

Digitized by the Internet Archive
in 2023 with funding from
Kahle/Austin Foundation

https://archive.org/details/cellular-immunology_1994_154_contents

INFORMATION FOR AUTHORS

Cellular Immunology will provide an international medium devoted exclusively to publication of original investigations concerned with the immunological activities of cells in experimental or clinical situations. The scope of the journal will encompass the broad area of *in vitro* and *in vivo* studies of cellular immune responses. These include, for example, delayed type hypersensitivity or cellular immunity; immunologic surveillance and tumor immunity; transplantation immunology; autoimmunity, resistance to intracellular microbial and viral infection; immunologic deficiency states and their reconstitution; antigen receptor sites; thymus and lymphocyte immunobiology, etc. The chief criteria for acceptance of papers submitted for publication are the originality, clarity, and quality of the work reported. Manuscripts are accepted for review with the understanding that the same work has not been and will not be nor is presently submitted elsewhere, and that its submission for publication has been approved by all of the authors and by the institution where the work was carried out; further, that any person cited as a source of personal communications has approved such citation. Written authorization may be required at the Editor's discretion. Articles and any other material published in *Cellular Immunology* represent the opinions of the author(s) and should not be construed to reflect the opinions of the Editor(s) and the Publisher.

Authors submitting a manuscript do so on the understanding that if it is accepted for publication, copyright in the article, including the right to reproduce the article in all forms and media, shall be assigned exclusively to the Publisher. The Publisher will not refuse any reasonable request by the author for permission to reproduce any of his or her contributions to the journal.

All manuscripts should be submitted to the Editor: Dr. H. Sherwood Lawrence, Infectious Disease and Immunology Division, Department of Medicine, New York University Medical Center, 550 First Avenue, New York, New York 10016.

Form. Manuscripts should be typewritten and double-spaced throughout (including tables, footnotes, references, and figure captions); the original typescript should be prepared on one side of a good grade of 8½ × 11-inch white paper, with 1-inch margins on all sides. Mimeographed or duplicated manuscripts will be accepted *if they are indistinguishable from good typed copies.* Submit three complete copies in order to expedite processing of the manuscript. Each copy *must* include all figures and tables.

Number the pages consecutively. *Page 1* should contain the article title, author(s), and affiliation(s); at the bottom of the page type a short running head title not exceeding 45 characters (including spaces), and the name and complete mailing address (including zip code) of the person to whom proofs should be sent. *Page 2* should contain a short abstract, approximately 100 to 150 words in length.

Headings. The organization of the paper must be clearly indicated by appropriate headings and subheadings.

Abbreviations. Do not use final periods after abbreviations of measure (cm, sec, kg, etc.) in text or in tables, except for "in." (inch). Use the American Chemical Society *Style Guide,* 1986, as a reference.

Symbols. Underline letters that represent mathematical symbols; these will be set in *italic* type.

Equations. Number equations consecutively, with the number placed in brackets to the extreme right of the equation. Refer to equations as Eq. [3] or simply [3], except at the beginning of a sentence, when the word Equation should be spelled out. Punctuate equations to conform to their place in the syntax of the sentence.

Footnotes. Use only when absolutely necessary, in which case type the footnotes consecutively, double-spaced, on a separate sheet of paper in the order of their appearance in the text. Use superscript Arabic numbers [1,2], etc. in the text citations and in the list.

Tables. Number tables consecutively with Arabic numerals in order of their appearance in the text. Type each table, double-spaced throughout on a separate sheet; avoid vertical rules. Supply a short descriptive title below the table number. Type table footnotes, lettered [a,b], etc. at the end of the table.

Figures. Number figures consecutively in the text with Arabic numerals. Type legends double-spaced together on a separate sheet. Original illustrations no larger than 8½ × 11 inches are preferred. All illustrations should be in finished form suitable for reproduction. They should be planned to fit the proportion of the printed page (5 × 8 in.). Lettering on drawings should be of professional quality or generated by *high-resolution* computer graphics and should be large enough (10–12 points) to take a reduction of 50–60%. Drawings should be made with black India ink on tracing linen, smooth surface white paper, or Bristol board. Alternatively, *high-quality* computer graphics may be acceptable. Graphs should be plotted with black India ink on light blue or white coordinate paper with coordinates properly labeled; grid lines that are to show should be inked in black. Photographs should be submitted as glossy prints (5 × 7 or 8 × 10 inches) and not marred by staples, paper clips, or pencil marks. Groupings of photographs should be indicated; if mounting is necessary, use 10- to 12-point *flexible* board.

Illustrations in color can be accepted only if the authors defray the cost.

References. These should be cited in the text by a number in parentheses and listed at the end of the paper in numerical order. Note the following style for book and journal citations:

1. Leopardi, E., and Rosenau, W., *Cell. Immunol.* **83,** 73, 1984.
2. Buckley, R. H., *In* "Monoclonal Antibodies: Probes for the Study of Autoimmunity and Immunodeficiency" (B. F. Haynes and G. S. Eisenbarth, Eds.), pp. 83–95. Academic Press, Orlando, FL, 1983.
3. Katz, D. H., "Lymphocyte Differentiation, Recognition, and Regulation." Academic Press, New York, 1977.

Abbreviations of journal names should follow the style of *Chemical Abstracts Service Source Index,* 1985. Unpublished observations and personal communications should be cited in the text as such, and should not be included in the reference list.

Letters to the Editor relating to articles appearing in *Cellular Immunology* are welcome and will be published, if found suitable, as limited space permits. All letters must be typewritten in the format of other material submitted for publication and limited in length to two typewritten pages.

Author's alterations in excess of 10% of the cost of composition will be charged to the author.

Reprints. 50 reprints will be supplied free of charge. Additional reprints can be ordered on the form accompanying the proof.

Personal computer disks. Manuscripts may be submitted to *Cellular Immunology* on personal computer disks after the manuscript has been accepted and after all revisions have been incorporated onto the disk. Label the disk with the type of computer used, the type of software and the version number, and the disk format. All tabular material will be typeset conventionally. Art must be prepared as camera-ready copy; see the section on Figures earlier in this Information for Authors.

A hard copy printout of the manuscript that exactly matches the disk file must be supplied. Academic Press will not accept disks without accompanying printouts of all files on the disk. File names must clearly indicate the content of each file. The manuscript will be edited according to the style of the journal, and the proofs must be read carefully by the author. Disks that are not translatable or economical to process will not be used. The publisher reserves the right not to use the disk.

For further information on preparing disks for typesetting conversion, please contact the publisher (Editorial Supervisor, Journal Division, Academic Press, Inc., 525 B Street, Suite 1900, San Diego, California 92101-4495; telephone: (619) 699-6415; fax: (619) 699-6800).